## METHOD FOR IDENTIFYING AN INTERROGATED OBJECT USING A DYNAMIC OPTICAL TAG IDENTIFICATION SYSTEM

## ABSTRACT OF THE DISCLOSURE

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An interrogator identifies an interrogated object using a light transceiver and a dynamic optical tag associated with the interrogated object. The dynamic optical tag receives an output light beam from the light transceiver and controllably reflects the light beam back to the light transceiver as an input light beam. The dynamic optical tag includes a controllable light reflector that is controllable between a reflective state and a non-reflective state and having a modulation signal input, and a controller that provides the modulation signal input to the controllable light reflector. In operation, the interrogator transmits an interrogation light beam from the light transceiver to the dynamic optical tag, the dynamic optical tag reflects a modulated interrogation light beam back to the light transceiver as the input light beam, and the light transceiver receives and analyzes the input light beam to determine an identity of the dynamic optical tag and the interrogated object. A field-of-regard broadening structure such as a volume hologram preferably overlies the controllable light reflector.